



**Society of
FLOATING SOLUTIONS
(Singapore)**

Naval Architecture Short Course: Fundamentals for Floating Structures

INTRODUCTION

In this year's National Day Rally, Prime Minister Lee Hsien Loong highlighted the effects of climate change and outlined various measures on preparing Singapore for rising sea levels. The Ministry of Environment and Water Resources projected that Singapore's mean sea levels would rise by up to one metre by 2100; this could, however, occur earlier. Land reclamation has become more challenging year by year and unsustainable. Fortunately, Singapore has about 700 sq km of territorial waters well sheltered by a cluster of Indonesian islands to the south.

We believe these open up huge opportunities and sustainable alternatives for creation of sea space floating solutions for the future. It would be a great opportunity to learn how floating solutions can contribute to Singapore's quest for more space, thereby freeing up land for housing etc. and reducing the country's carbon footprint.

COURSE OBJECTIVE

The course is specially designed to provide non-maritime and maritime professionals an appreciation of the concepts, principles and design methodologies of floating structures.

Participants will build up a good knowledge of floating structures and acquire better understanding of offshore technologies as well as their applications to offshore infrastructures and floating facilities such as fuel storage, power plants, shipyards, farms, ports, golf courses, bridges, recreation parks and floating cities etc.

ORGANISER

Society of FLOATING SOLUTIONS (Singapore)

DATE

25-26 February 2020

VENUE

Newcastle Research and Innovation Institute (NewRIIS)

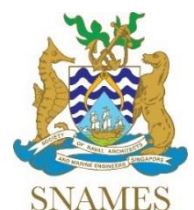
80 Jurong East Street 21
#05-04

Devan Nair Institute for Employment and Employability
Singapore 609607

SUPPORTERS OF COURSE



Centre for Offshore Research & Engineering
Faculty of Engineering





WHO SHOULD ATTEND THIS TRAINING COURSE?

Architects, city planners, maritime policy makers, civil and structural engineers, developers, academics, researchers and other maritime or construction professionals who want to expand into floating solutions.

COURSE CONTENT

- Floating Structures & Applications
- Design Principles & Considerations
- Classification Rules for Floating Structures
- Buoyancy, Weight & Stability
- Wave Excitation and Motion Analysis
- Structural Strength & Material
- Connection System for Multiple Floating Units
- Mooring System
- Construction and Installation
- Case Studies



COURSE PRESENTERS

- Mr LIM Soon Heng, President of the Society of Floating Solutions (Singapore)
- Dr KOH Hock Seng, 2nd Vice President of the Society of Floating Solutions (Singapore)
- Mr NG Chun Wee, Senior Engineer/Project Manager - DNV GL Approval Centre, Singapore
- Mr Rasim ASGAROV, Director - Brigantine Marine Consulting
- Dr Arun DEV, Associate Professor - Newcastle University
- Dr TAY Zhi Yung, Assistant Professor - Singapore Institute of Technology
- Mr Henry, HAN Lei, Managing Director - Hanns-Ocean Pte Ltd
- Mr Anil THAPAR, Head of Floating Structures - BMT
- Mr Ivan STOYCHEV, Member of the Society of Floating Solutions (Singapore)
- Dr ANG Kok Keng, Associate Professor - University of Singapore
- Dr WAN Ling, Assistant Professor - Newcastle University

REGISTRATION

The registration fee includes a hardcopy of training course materials, coffee/tea breaks and lunches.

Interested participants should register & complete payment online by the specified dates:

For SFSS members: 350 SGD before 20 December 2019 to enjoy early bird registration
400 SGD after 20 December 2019

For non-SFSS members: 450 SGD before 20 December 2019 to enjoy early bird registration
480 SGD after 20 December 2019

Registrations will close Friday, 7 February 2020 or once capacity is reached.

For online Registration, please visit [here](#)

For more information, please visit: <https://floatingsolutions.org>

For email enquiry or group discount for registration of 3 or more persons from the same company, please email: enquiries@floatingsolutions.org



PRELIMINARY PROGRAMME

Following is the preliminary programme for the two days. The order of the modules may change.

| Day 1 | Tuesday, 25 February 2020 | Presenter |
|---------|--|------------------|
| 8.30am | Registration | |
| 9.00am | Floating Structures & Applications | LIM Soon Heng |
| 10.00am | Break | |
| 10.20am | Design Principles & Considerations | Dr KOH Hock Seng |
| 11.30am | Classification Rules for Floating Structures | NG Chun Wee |
| 12.30pm | Lunch | |
| 13.30pm | Buoyancy, Weight & Stability | Rasim ASGAROV |
| 15.00pm | Break | |
| 15.20pm | Wave Excitation and Motion Analysis | Dr Arun DEV |
| 17.00pm | End of Day | |

| Day 2 | Wednesday, 26 February 2020 | Presenter |
|---------|--|--|
| 9.00am | Structural Strength & Material | Dr TAY Zhi Yung |
| 10.30am | Break | |
| 10.50am | Connection System for Multiple Floating Units | Henry, HAN Lei |
| 12.00am | Mooring System | Anil THAPAR |
| 13.00pm | Lunch | |
| 14.00pm | Construction and Installation | Ivan STOYCHEV |
| 15.00pm | Break | |
| 15.20pm | Project Case Studies Case 1: Floating Oil Storage Case 2: Floating Bridges Case 3: Float@Marina Bay | Dr ANG Kok Keng Dr WAN Ling Dr KOH Hock Seng / Anil THAPAR |
| 16.50pm | Closing | |
| 17.00pm | End of Day | |